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Searched the web for **filter design helical** .

Results 1 - 10 of about 19,900. Search took 0.08 seconds.

Filter Design Software

... HOME Program Name: **HELICAL** Function: **Helical filter design** License

type: Freeware Description: **Design a helical band pass filter**. ...

www.geocities.com/gregsdowndownloadpage/filter.html - 13k - [Cached](#) - [Similar pages](#)

Software page of the WB6BLD site

... the Class-E amplifier **design** program ClassE, the Class-E amplifier **design** program

Helical, the **helical**-resonator bandpass **filter design** program **Helical**, the ...

mywebpages.comcast.net/tonne/software.html - 10k - [Cached](#) - [Similar pages](#)

Helical resonator page of the WB6BLD site

... Microwaves, February 1966 **Helical Filters** (chapter) Al Zverev Handbook of **Filter**

Synthesis John Wiley & Sons, 1967 **Helical-Resonator Filter Design**, Vincent G ...

mywebpages.comcast.net/tonne/helical.html - 8k - [Cached](#) - [Similar pages](#)

Circuit Sage: Filter Design and Analysis

... 44. Elsie, a **filter design** routine by Jim Tonne, \$275, student version is free.

He also has **Helical**, a **helical**-resonator-based bandpass **filter** designer. 45. ...

www.circuitsage.com/filter.html - 39k - [Cached](#) - [Similar pages](#)

Lorch Microwave - Cavity Filters

... Cavity **filter** performance is based on parts selection and ... At lower frequencies a **helical** coil is used to excite ... to 1/4 wave capacitively loaded **design** is used ...

www.lorch.com/cavity.html - 8k - [Cached](#) - [Similar pages](#)

KSA ELECTRONICS

... Lorch Microwave's **filter designs** are available to satisfy bandpass ... our years of service that one **design** does not ... ladder, highpass/lowpass, or **helical** to achieve ...

www.ksa.com/KSA/lorch.html - 15k - [Cached](#) - [Similar pages](#)

Wireless Design & Development

... is needed in this frequency range the lumped element **filter** is not the **design** of choice because of the component's "Q" limitation. **Helical filters** are the ...

www.wirelessdesignmag.com/scripts/ShowPR.asp?

PUBCODE=055&ACCT=0000100&ISSUE=0401&RELTYPE=PR&a... - 11k - [Cached](#) - [Similar pages](#)

Quality Technical Books: HF Filter Design and Computer Simulation

... A book for engineers who **design** and build **filters** of all types, including lumped element, coaxial, **helical**, dielectric resonator, stripline and microstrip types ...

qtb.com/Merchant2/merchant.mv?

Screen=PROD&Store_Code=QTB&Product_Code=1884932258&Category_Code=RF - 7k - [Cached](#) - [Similar pages](#)

Amazon.com: Books: Hf Filter Design and Computer Simulation

www.amazon.com/exec/obidos/tg/detail/-/1884932258?v=glance - [Similar pages](#)

Helix and Filter Construction

... Pipe Bandpass **Filters** As used in OCAR to limit non-Ham inputs. Helix **Design**. "...the


dimensions of the helix are so noncritical that a **helical** beam antenna is ...
www.sonic.net/~jwatrous/helix.html - 5k - [Cached](#) - [Similar pages](#)

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SOFTWARE

Last updated 09/10/2003 15:49:00

This site is now being maintained at
Comcast.net and also at QSL.net

These programs are copyrighted proprietary software and are not in the public domain. No license fee is required for use of the software as presented on this site. The full commercial version of Elsie is subject to the usual licensing restrictions. Duplication or copying of this software is expressly prohibited including distribution on CD-ROMs and/or placement on other sites without a prior agreement with the author.

Please note that if you modify the executables then bad things might happen - by design. You are responsible for the results of modifying an executable. For example, the value of PI can revert to 3.000 if a program senses a problem. The program may "function" but the results would of course be erroneous.

Click on the appropriate icon to go directly to that item . . .



Elsie, THE filter design and network analysis program



Meter, the meter-scale drawing program



ClassE, the Class-E amplifier design program



Helical, the helical-resonator bandpass filter design program



RevLoad, a program to reveal the load on a matching network



Match2, the general-purpose impedance-matching program



PaletteM, the palette-altering program for QBX



Quad, the quadrature-network design and analysis program



Tower, the vertical tower base-impedance predicting program

[Go back one page](#)

Links to this site are welcome and will be reciprocated.

HOME APP NOTES PHOTOS

Feel free to contact the author with comments

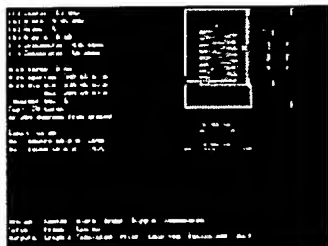
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30,560



About "Helical" . . .

This page was last updated on 08/14/2003 09:36:19



This is a graphics-intensive bandpass filter program based on the helical resonator.

Here are the highlights of this program:

- The program designs bandpass filters with a selection of the order from 2 to 12.
- Center frequency, bandwidth, and passband ripple are all adjustable. The ripple value may be set to zero for a Butterworth response.
- The dimensions of the individual resonators are set by specifying an impedance value. Then the actual terminating impedances are separately chosen.
- Analysis is based on an equivalent circuit using capacitive input, interstage and output coupling.
- Analysis is delivered in both tabular and graphical form and includes transmission, return loss, phase, envelope delay and input impedance with its angle.
- The dimensions of the resonator(s) delivered by the program are shown in graphical form.
- References:

Coaxial Resonators with Helical Inner Conductor
W. W. Macalpine
Proceedings of the I.R.E., December 1959

Need A Helical Filter?
Lee R. Watkins
RF Design, May 1961

Realization of a Filter With Helical Components
A. I. Zverev and H. J. Blinchikoff
I.R.E. Transactions on Component Parts
Volume CP8, September 1961

Design Of A New, Low-Cost Helical-Resonator Filter
Solomon I. Hecht
Microwaves, February 1966

Helical Filters (chapter)
A. I. Zverev
Handbook of Filter Synthesis
John Wiley & Sons, 1967

Helical-Resonator Filter Design,
Vincent G. Heesen
RF Design, July 1985

The download . . .

A question has arisen regarding the coupling dimensions. If you can show that this program is in error, kindly send me a correction message.

The zipped file contains the executable program file, a last-session file to enable restart at the end of the last session and an icon to facilitate operation under Windows.

Download the program . . .



HELICAL112.ZIP 80k Version 1.12 26 May 2002

Questions?

e-mail the author for further information or to comment on the program.

[Go back one page](#)

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30,567



helical[1]

```
<!DOCTYPE html
  PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
    "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml">

<head>

  <meta http-equiv="content-Type"
    content="text/html; charset=us-ascii" />

  <title>
    Helical resonator page of the WB6BLD site
    Page 1
```

```

                                helical[1]

</title>

<link rel="shortcut icon"
      href="graphics/favicon.ico" />

<link rel="stylesheet"
      href="styles.css"
      type="text/css" />

<meta name="generator"
      content="WordPad" />

<meta name="description"
      content="Amateur Radio Station WB6BLD - uncommon technical re
source site catering to engineers" />

<meta name="keywords"
      content="freeware, radio, filter design, filter design softwa
re, electrical filters, design software, filter software, WB6BLD, W5SU
C, Elsie, Elsie filter, Elsie design, Elsie filter design software, To
nne" />

<meta name="author"
      content="Jim Tonne" />

<meta name="copyright"
      content="Copyright (C) 2001-2003 Jim Tonne" />

<script language="javascript"
      type="text/javascript">

    <!--

    if (top.location != self.location)
        {top.location = self.location}

    button1a=new Image(32,32)
    button1a.src="graphics/disk5.jpg"
    button1b=new Image(32,32)
    button1b.src="graphics/disk4.jpg"

    button2a=new Image(80,20)
    button2a.src="graphics/small-new-e-mail.gif"
    button2b=new Image(80,20)
    button2b.src="graphics/small-new-e-mail1.gif"

    //    -->

```


helical[1]

```
<table width="460"
        align="center"
        border="0">
```

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<tr>
<td>
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This is a graphics-intensive bandpass filter program based on the helical resonator.

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Here are the highlights of this program:

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<ul type="square">
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The program designs bandpass filters with a selection of the order from 2 to 12.

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<br />
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</li>
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<li>
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Center frequency, bandwidth, and passband ripple are all adjustable. The ripple value may be set to zero for a Butterworth response.

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</li>
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The dimensions of the individual resonators are set by specifying an impedance value. Then the actual terminating impedances are separately chosen.

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Analysis is based on an equivalent circuit using capacitive input, interstage and output coupling.

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</li>
```

helical[1]

Analysis is delivered in both tabular and graphical form and includes transmission, return loss, phase, envelope delay and input impedance with its angle.

The dimensions of the resonator(s) delivered by the program are shown in graphical form.

References:

Coaxial Resonators with Helical Inner Conductor

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A. I. Zverev and H. J. Blinchikoff

I.R.E. Transactions on Component Parts

Volume CP8, September 1961

Design Of A New, Low-Cost Helical-Resonator Filter


```

                                helical[1]

<br />
<br />

<h2>
    &nbsp;&nbsp;&nbsp;Download the program . . .
</h2>

<a href="downloads/helical112.zip"
  onmouseover="document.button4.src=button1a.src"
  onmouseout="document.button4.src=button1b.src">
  </a>
  <b>
    <font color="#0000ff">
      HELICAL112.ZIP 80k
    </font>
  </b>
&nbsp;&nbsp;&nbsp;Version 1.12&nbsp;&nbsp;&nbsp;26&nbsp;&nbsp;&nbsp;May&nbsp;&nbsp;&nbsp;2002
<br />
<br />
<br />
<br />

</td>
</tr>
</table>


<h2>
    &nbsp;&nbsp;&nbsp;Questions?
</h2>

<a href="mailto:wb6bld@qsl.net?subject=Helical-resonator filter pr
ogram inquiry"
  onmouseover="document.button2.src=button2a.src"
  onmouseout="document.button2.src=button2b.src">
  </a>

```

```

                                helical[1]
&nbsp;the author for further information
or to comment on the program.
<br />
<br />
<br />
<br />
<br />

<center>
  <font class="copyright">
    <a href="javascript:history.back(1)">Go back one page</a>
  </font>
</center>
<br />

<center>
  <font class="copyright">
    Copyright &copy; 2001-2003 Jim Tonne. All rights reserved.
  </font>
</center>
<br />

<center>
  <!--WEBBOT bot="HTMLMarkup" startspan ALT="Site Meter counter" -->
  <script type="text/javascript"
    language="javaScript">
    <!--
    var site="sm8tonne"
    -->
  </script>
  <script type="text/javascript"
    language="JavaScript1.2"
    src="http://sm8.sitemeter.com/js/counter.js?site=sm8tonne">
  </script>
  <noscript>
  <a href="http://sm8.sitemeter.com/stats.asp?site=sm8tonne">
    </a>
  </noscript>
  <!-- Copyright (c)2003 Site Meter -->
  <!--WEBBOT bot="HTMLMarkup" Endspan -->
</center>

<center>
  <a href="http://validator.w3.org/check?uri=http://mywebpages.comcas
t.net/tonne/helical.html;ss=1;verbose=1">
    </a>
</center>
</body>
</html>
```